

Alflex™ (UV, A, B)

Versatile Aluminum Mirrors, Giving an Excellent Stable Performance

The Alflex™ standard mirror coating has proven itself many times over due to its hardness and durability. Depending on the application it is generally insensitive to polarization and angle of incidence over a wide range. All types of Alflex™ are equipped with a protective layer.



Benefits

- Excellent environmental stability
- Low angle of incidence dependency
- Suited for application with temperature sensitive substrates

Applications

- Optical sensors and instruments
- All reflective optics at UV and VIS

Technical Data

Alflex™ UV

R ≥ 88.0% abs. 200–250 nm
 R ≥ 85.0% avg. 200–700 nm
 AOI = 25°–45°

MIL-M-13508 C

Para. 4.4.4
 Para. 4.4.6
 Para. 4.4.7

Alflex™ A

R ≥ 88.0% abs. 500–600 nm
 R ≥ 85.0% avg. 400–700 nm
 AOI = 25°–45°

MIL-M-13508 C

Para. 4.4.4
 Para. 4.4.5
 Para. 4.4.6
 Para. 4.4.7

Alflex™ B

R ≥ 93.0% abs. 500–600 nm
 R ≥ 89.0% avg. 400–700 nm
 AOI = 25°–45°

MIL-M-13508 C

Para. 4.4.4
 Para. 4.4.5
 Para. 4.4.6
 Para. 4.4.7
 Accuracy ±0.5%

Environmental Resistance and Durability

The coatings withstand the tests on glass substrates

Temperature (MIL-M-13508 C, para. 4.4.4)

5 h each at –62°C and +71°C

Hardness (MIL-M-13508 C, para. 4.4.5)

50 strokes with cheesecloth

Adherence (MIL-M-13508 C, para. 4.4.6)

Scotch tape test

Humidity (MIL-M-13508 C, para. 4.4.7)

24 h at 49°C r.h. 95%

Cleaning

Alflex™ withstands immersion in acetone, ethanol, etc. As specified in MIL-C48497, para 4.5.4.2. It can be cleaned with a soft cotton cloth soaked in mild soapy water, ethanol or other non-abrasive substances.

Angle of incidence

Alternative AOI available on request

Alflex™ is applicable as well on customer supplied substrates

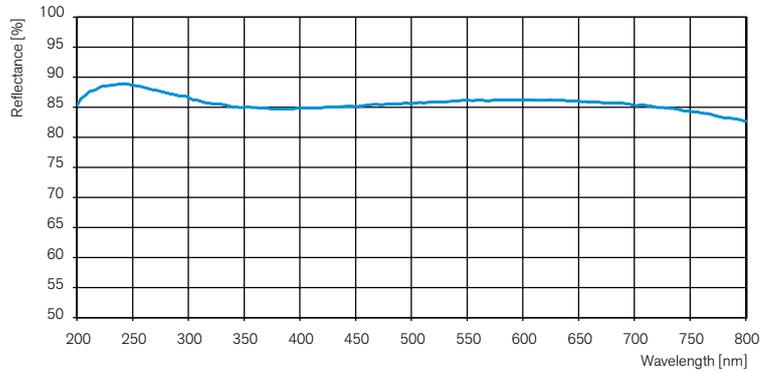


Optics Balzers AG
 Neugrüt 35
 LI-9496 Balzers

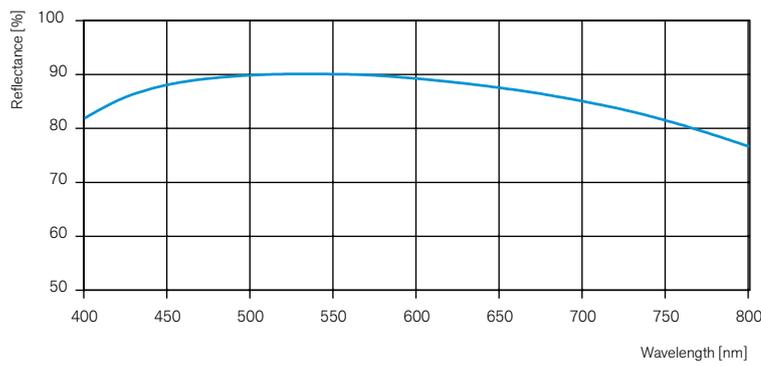
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Aiflex™ UV

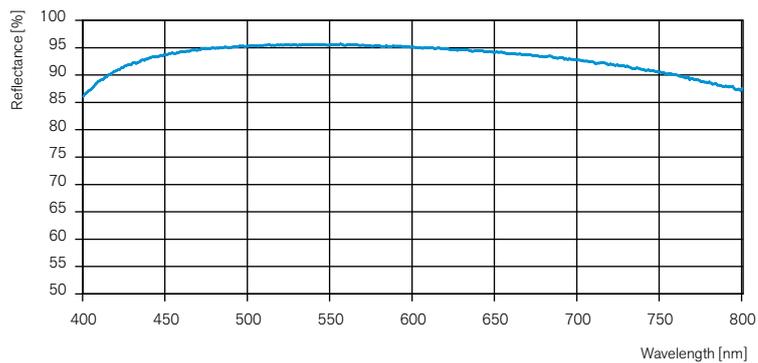
Principle curve at AOI = 45°


Aiflex™ A

Principle curve at AOI = 45°


Aiflex™ B

Principle curve at AOI = 45°


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